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D. MOLZAHN, P. VATER and
R. BRANDT

G. M. HASSIB

G. BIGAZZI, J. C. HADLER,
A. L. F. MARQUES and S. R. PAULO

I. MÄKELÄINEN

D. T. BARTLETT, C. W. BROWNE,
P. J. GILVIN, D. W. DIXON and
J. C. H. MILES

J. F. PINEAU

G. SOMOGYI and L. LÉNÁRT

J. C. H. MILES and J. SINNAEVE

M. SINGH, N. P. SINGH, S. SINGH
and H. S. VIRK

P. ANDERSSON

A. RANNOU, L. JEANMAIRE,
G. TYMEN, A. MOUDEN, E. NAOUR,
N. PARMENTIER and H. RENOUARD

G. TYMEN, A. MOUDEN, A. RANNOU,
C. MADELMONT and N. PARMENTIER

S. HERTZMAN and C. SAMUELSSON

G. JÖNSSON

B. MAJBORN

G. ESPINOSA, J. I. GOLZARRI,
I. GAMBOA and I. JACOBSON

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705 The role of nuclear track filters in radon measurements

709 The application of the Karlsruhe radon diffusion chamber in sub-surface uranium exploration

713 Measurement of the relative efficiencies between plastic nuclear track detectors (LR-115 and CR-39) and K0 Ilford nuclear emulsion for the detection of radon and daughters alpha radioactivity in air

717 Experiences with track etch detectors for radon measurements

721 A radon personal dosimeter for miners

725 Routine use of cellulose nitrate films for the dosimetry of underground miners in France

731 Time-integrated radon measurements in spring and well waters by track technique

735 The performance of different types of etched-track radon dosimeters in two international intercomparisons

739 Calibration of radon detectors

743 Calibration of radon detectors in simulated natural environment

747 Use of cellulose nitrate as radon and radon daughters detectors for indoor measurements

751 Results of natural radon daughter exposure measurements by using alpha dosimeters, in western individual houses of France

755 The use of open track films for ^{222}Rn -measurements in dwellings

759 Indoor radon measurements with Kodak track film—some results

763 Measurements of radon in dwellings with CR-39 track detectors

767 Natural radioactivity in Mexican building material by SSNTD

SESSION IV: APPLICATIONS TO BIOLOGY AND RADIOPROTECTION IV. 4. Measurement of fissile elements and alpha emitters

CHAIRMAN: G. CAMPOS-VENUTI

Invited Paper

W. R. ELLIS

N. LAL, P. K. SHARMA,
K. K. NAGPAUL, D. BEHERA
and S. K. MALIK

A. DANIŞ, D. DORCIOMAN
and A. PONTA

K. C. DAS, A. HANIFA and
T. D. GOSWAMI

N. P. SINGH, M. SINGH,
S. SINGH and H. S. VIRK

773 Advantages of solid state nuclear track detectors for the assessment of alpha emitters and fissile elements

781 Uranium assay in various tobaccos using SSNTDs technique

785 Certified reference materials with uranium homogeneity on the microscale

789 The uranium content in the blood of some vertebrates

793 Uranium estimation in Siwalik vertebrate fossil bones using SSNTD

N. SEGOVIA, M. E. OLGUÍN
and M. ROMERO

SHI-LUN GUO, XIN-LU DENG,
SHENG-FEN SUN, WU MENG,
PENG-FA ZHANG and XIU-HONG HAO

E. PITT, A. SCHARMANN,
B. WERNER and M. SELTERS

L. JEANMAIRE, M. VERRY,
C. PITIOT and A. RANNOU

W. R. ELLIS

M. A. COLEMAN, C. BRIGHT,
D. L. HENSHAW and A. P. FEWS

D. L. HENSHAW, A. P. FEWS,
R. MAHARAJ and L. SHEPHERD

D. L. HENSHAW and A. WORLEY

WANG SCHICHENG and CUI HUANHUA

A. CECCHI, C. GORI and
G. ZATELLI

S. PORTAKAL

797 Studies of U in the blood of two population samples

801 Comparison between fission track method and laser-fluorometry
and fluorocolorimetry for determination of uranium concentration
in natural water

805 Estimation of uranium contamination in aluminium foils by CR-39
track detectors

809 Use of cellulose nitrate in radiotoxicology for measurement of
alpha low level activities in biological samples

813 The use of nuclear methods for the examination of coral samples
from Mururoa Atoll for plutonium content

817 Effects of radon diffusion on the microdistribution of alpha-active
nuclei recorded on CR-39 autoradiographs

821 Autopsy studies of the microdistribution of α -active nuclides in
lung tissue

825 The microdistribution of alpha-emitting particles in human bone

829 The energy measurement of alpha particles using CA SSNTD

833 On the determination of alpha activity in airborne particulate from
zircon sand using cellulose nitrate detectors

837 The separation of the americium from sea algae and measurement
of the activity by solid state nuclear track detector

SESSION V: APPLICATIONS TO EARTH SCIENCE AND DATING

V. 1. Earth science

CHAIRMAN: D. B. ISABELLE

K. THIEL and HU RUIYING

J.-C. PETIT, C. BROUSSE,
J.-C. DRAN and G. DELLA MEA

J.-C. DRAN and J.-C. PETIT

A. CHAMBAUDET, M. MARS,
M. REBETZ and F. THEOBALD

A. CHAMBAUDET, M. MARS and
M. REBETZ

I. J. M. AL-KHALIFA and
S. A. DURRANI

M. S. KHALIFA and S. A. DURRANI

N. SEGOVIA, S. DE LA CRUZ-REYNA,
M. MENA, M. ROMERO,
J. L. SEIDEL, M. MONNIN,
E. MALAVASSI, J. BARQUERO,
E. FERNANDEZ, G. AVILA,
R. VAN DER LAAT, L. PONCE
and G. JUAREZ

S. DE LA CRUZ, D. B. ISABELLE,
M. MENA, M. MONNIN, M. ROMERO,
N. SEGOVIA, J. L. SEIDEL,
P. PIALOUX and M. A. ARMIENTA

M. SINGH, N. P. SINGH,
S. SINGH and H. S. VIRK

843 The particle track record of the H5-chondrite "Jilin"

847 Use of fission tracks for deciphering the dissolution mechanism of
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851 Etching of fission tracks in silicate glasses by means of deionized
water

855 Chemical etching and length distribution of fission tracks: a model

859 A comparison of different external detectors for fission track dating
of apatite

863 Study of radiation damage in mineral epidote using nuclear track
and thermoluminescence (TL) methods

867 Fission tracks and thermoluminescence (TL) properties of natural
sphene crystals

871 Radon variations in active volcanoes and in regions with high
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875 Radon emanation related to geothermal faults

879 Radon survey for uranium prospecting using alpha detectors

N. P. SINGH, M. SINGH,
S. SINGH and H. S. VIRK

T. WALL

883 Uranium and thorium analysis in geological samples using plastic track detectors

887 Use of an alternative neutron dosimetry standard for fission track dating

SESSION V: APPLICATIONS TO EARTH SCIENCE AND DATING

V. 2. Dating

CHAIRMAN: G. ESPINOSA

J.-C. PETIT, J.-C. PARNEIX
and J.-C. DRAN

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G. POUPEAU, R. BAITELLI,
M. BERBERT, G. BIGAZZI,
A. FONSECA and J. C. HADLER

897 On the reproducibility of apatite fission-track plateau-age dating

C. BERNARDES, G. BIGAZZI,
F. P. BONADONNA, E. CENTAMORE,
C. M. G. LATTES and J. C. HADLER

901 Fission track dating on glass from "Flysch della Laga" formation—a very interesting and problematic application.

S. R. HASHEMI-NEZHAD and
S. A. DURRANI

905 Determination of fission track age of uranium-bearing veins in a biotite sample from Bancroft, Canada

T. D. MÄRK, W. RITTER,
S. SCHÖPF and H. J. KOARK

909 Studies on the Lower Seve Nappe at Mount Areskutan, Sweden, using the fission track temperature age method

S. SANZELLE, J. FAÏN
and D. MIALLER

913 Theoretical and experimental study of alpha counting efficiency using LR-115 Kodak SSNTD applied to dosimetry in the field of thermoluminescence dating

A. S. SANDHU, S. SINGH,
S. K. MODGIL and H. S. VIRK

917 Track annealing studies in some micaceous minerals

K. JAMES and S. A. DURRANI

921 Fission track closure temperatures

S. SINGH, D. SINGH, A. S. SANDHU,
G. SINGH and H. S. VIRK

927 A study of track etch anisotropy in apatite

SESSION VI: TECHNOLOGICAL APPLICATIONS

VI. 1. Applications to radiography, microanalysis etc.

VI. 2. Applications to fission and nuclear technologies

VI. 3. Nuclear track microfilters

CHAIRMAN: H. A. KHAN

R. ILIĆ, J. RANT, M. HUMAR,
G. SOMOGYI and I. HUNYADI

933 Neutron radiographic characteristics of MA-ND type (allyl-diglycol-carbonate) nuclear track detectors

R. ILIĆ, V. MARINKOVIĆ,
M. NAJŽER and T. ŠUTEJ

937 Image quality factors of radiography with track-etch detectors

J. RANT, A. LOOSE and R. ILIĆ

941 The use of radiographic techniques for contrast enhancement and indirect evaluation of relief autoradiographic images (lithographs)

A. LOOSE, R. ILIĆ,
V. MARINKOVIĆ and M. NAJŽER

945 Application of autoradiographic techniques for diffusion studies of nuclear fuel

G. SOMOGYI, Zs. VARGA,
I. HUNYADI, K. FREYER and
H. CH. TREUTLER

949 Studies on nitrogen mapping by various CR-39 track detectors

M. M. DHAWAN

953 Microanalytical estimation of boron and uranium in some semiconductors using solid state nuclear track detectors

A. DANIŞ and E.-G. BADEA

957 Polymer thermooxidative degradation kinetics investigations by the fission track method

F. H. RUDDY, J. H. ROBERTS,
R. GOLD, C. C. PRESTON,
L. S. KELLOGG, E. P. LIPPINCOTT
and W. N. McELROY

961 Light water reactor pressure vessel surveillance using reactor cavity solid state track recorder neutron dosimetry

P. M. EVANS, A. P. FEWS
and W. TONER

P. M. EVANS, A. P. FEWS
and W. TONER

WU RISHENG, CUI HUANHUA
and WANG SHICHENG

K. JAMIL, E. U. KHAN,
SHI-LUN GUO, R. DERSCH,
P. VATER, R. BRANDT,
K. R. SPURNY and W. MÖLTER

R. BRANDT, R. DERSCH,
W. RUDOLPH, W. SCHMELZER
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969 Measurement of Rayleigh–Taylor instability in laser accelerated foils

973 The research of microscopic structure of nuclear track pore

977 Filtration properties of mica track microfilters to be used in an industrial aerosol measuring instrument

981 Industrial applications of mica track microfilters

985 Investigation on a modified CR-39 microfilter

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